WHAT IS CLAIMED IS:

is directed downward;

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1. A substrate processing system comprising:

a holding means for holding detachably a substrate;
a chucking means for chucking the substrate from the holding
means in a state that a processes surface of the substrate

a processing means provided under the substrate, for processing the processes surface of the substrate; and

a moving means for moving the processing means and/or the chucking means in a horizontal plane.

- 2. A coating apparatus for forming a coating film on a coated surface by raising a coating liquid that is reserved below a substrate by a capillary phenomenon of a nozzle, bringing the raised coating liquid into contact with the coated surface of the substrate that is directed downward, and/or then moving the nozzle and the substrate, comprising:
 - a holding means for holding detachably the substrate;
- a chucking means for chucking the substrate from the holding means in a state that the processes surface of the substrate is directed downward; and

a moving means for moving relatively the nozzle and/or the chucking means in a horizontal plane.

3. A coating apparatus according to claim 1 or 2, wherein the holding means levers up the substrate to the vertical

direction upon attaching and detaching the substrate by turning the substrate by a predetermined angle.

- 4. A coating apparatus according to claim 1 or 2, wherein5 the coating film is made of resist.
 - 5. A coating apparatus according to claims 1 or 2, wherein the substrate is a photo mask blank.
- 6. A coating method of forming a coating film on a coated surface by raising a coating liquid by a capillary phenomenon of a nozzle, bringing the raised coating liquid into contact with the coated surface of the substrate that is directed downward, and then moving relatively the nozzle and the substrate, comprising steps of:
 - a step of setting the substrate on a holding means such that the processes surface of the substrate is directed downward;
 - a step of moving relatively vertically the holding means and/or a chucking means to come close to each other in a state that the processes surface of the substrate is directed downward;

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- a step of chucking the substrate by the chucking means;
- a step of moving relatively vertically the holding means and/or the chucking means to separate from each other; and
- a step of forming the coating film on the coated surface
 of the substrate by moving relatively the nozzle and/or the chucking means in a horizontal plane.

- 7. A coating method according to claim 6, wherein the coating film is made of resist.
- 8. A coating method according to claim 6 or 7, wherein the substrate is a photo mask blank.